CTE Program Competencies
Computer Animation and Web Page Design 3 / 4
CIP: 11.1004

Occupational Skills
The Student demonstrates the specified level of competency in occupational skills:

0	1	2	3	4
No Exposure	Introduced	Practiced	Entry-level	Competency

DYNAMIC WEB PAGE DESIGN
Aligned with Vermont Standards: 1.8, 1.10, 1.18, 1.19, 1.21, 2.2, 2.12, 2.13, 2.14, 7.17, 7.18

0 1 2 3 4   **EE.**   **Understand components of dynamic web page design.**
EE.001 Create dynamic web pages that interact with the user (using DHTML)
EE.002 Use modern techniques to separate content from format (XML and XSLT)

INTERNET SCRIPTING AND PROGRAMMING
Aligned with Vermont Standards: 1.21, 2.2, 2.4, 2.13, 2.14, 7.17, 7.19

' ' ' ' '   **FF.**   **Integrate Scripts in Web Site Development**
FF.001 Identify the characteristics of Client Side Scripting
FF.002 Insert a client side script into a web page
FF.003 Modify parameters of client side script
FF.004 Identify the characteristics of Server Side Scripting
FF.005 Insert a Service Side Script into a web page
FF.006 Modify parameters of a Server Side Script
FF.007 Locate host service providers for various type of scripting options
FF.008 Identify characteristics of various types of scripting languages

DATABASE DESIGN AND INTERACTION
Aligned with Vermont Standards: 1.21, 7.17

' ' ' ' '   **HH.**   **Demonstrate knowledge of database design**
HH.001 Create an Entity Relationship Diagram to model business needs and functions
HH.002 Create and populate a database table
HH.003 Create relationship in a database
HH.004 Create queries from multiple tables
HH.005 Create reports from a database

0 1 2 3 4   **II.**   **Use databases in a web environment**
' ' ' ' '   II.001   Use an ODBC connection
II.002   Demonstrate understanding of URL parameters
II.003   Retrieve data from a database into a web page
II.004   Insert data a database from a web page form
II.005   Maintain data in a database from a web environment

' ' ' ' '   **JJ.   Use a structured query language**

JJ.001   Retrieve data
JJ.002   Insert data
JJ.003   Update data
JJ.004   Delete data
JJ.005   Create and maintain database objects
JJ.006   Control transactions
JJ.007   Control data/user access
JJ.008   Retrieve data using additional advanced techniques

SERVER DEVELOPMENT AND MAINTENANCE
Aligned with Vermont Standards: 2.2, 2.4, 2.12

' ' ' ' '   **LL.   Understand components of server development and maintenance**

LL.001   Install an operating system to create a server
LL.002   Configure a computer to act as a web and FTP server
LL.003   Maintain a server